

NWFSC Watershed Program Open House

Museum of History and Industry

2700 24th East, Seattle, Washington 98112

March 19th, 2002

8:30 Welcome – Usha Varanasi/Phil Roni

8:50 – 9:00 Overview of the Ecosystem Processes and Land Use Team– Peter Kiffney

9:00 – 9:25 Dynamics of floodplain ecosystems: preliminary results – Tim Beechie, Ali Senauer, Martin Liermann, and Blake Feist

9:25 – 9:50 Coarse sediment storage by large woody debris in headwater streams – Michael Pollock, Jill Silver (Northwest Indian Fisheries Commission)

9:50 – 10:15 A broad-scale habitat inventory for the Willamette – Lower Columbia: Approach and applications – Ashley Steel and Mindi Sheer (Conservation Biology, NWFSC)

10:15 – 10:30 BREAK

10:30 – 10:55 Factors affecting food webs in Pacific Northwest streams – Peter Kiffney, Beth Sanderson (Environmental Conservation, NWFSC), and Phil Roni

10:55 – 11:20 Utilization of nitrogen from spawning salmon by juvenile chinook salmon and steelhead in two tributaries of the Columbia River – Todd Bennett, Phil Roni, and Bob Bilby (Weyerhaeuser Company)

11:20 – 11:30 Overview of the Fish and Habitat Relationships Team – Tim Beechie

11:30 – 11:55 Statistical approaches to the analysis of fish density data – Martin Liermann, Ashley Steel, Michael Rosing (Greenland Institute of Natural Resources), and Peter Guttorp (University of Washington)

11:55 – 12:20 Evaluating persistence of chinook salmon using habitat-specific models – Correigh Greene, Mary Ruckelshaus (Conservation Biology, NWFSC), Tim Beechie, and Eric Beamer (Skagit System Cooperative)

12:20 – 1:30 BREAK

1:30 – 1:55 Abundance and distribution of juvenile salmonids and three forage fish species in nearshore waters of Skagit Bay, Puget Sound, Washington: Results from the 2001 totnet pilot study – Casey Rice, Eric Beamer (Skagit System Cooperative), Dan Lomax (Ecotoxicology Program, NWFSC), Rich Henderson (Skagit System Cooperative), and George Pess

1:55 – 2:20 Predicting steelhead redd density in the Willamette River basin from landscape characteristics – David Jensen, Ashley Steel, Blake Feist, George Pess, Bob Bilby (Weyerhaeuser Company), and Jody Brauner (University of Washington)

2:20 - 2:30 Overview of the Restoration Team – George Pess

2:30 – 2:55 A review of stream restoration techniques and a hierarchical strategy for prioritizing restoration in Pacific Northwest watersheds – Phil Roni, Tim Beechie, George Pess, Michael Pollock, Frank Leonetti (Snohomish County Public Works), and Bob Bilby (Weyerhaeuser Company)

2:55 – 3:10 BREAK

3:10 – 3:35 Restoration of off-channel habitats for Pacific salmon - Sarah Morley, Patsy Garcia, Todd Bennett, and Phil Roni

3:35 – 4:00 The truth about non-indigenous species in Pacific Northwest estuarine ecosystems – Blake Feist and Peter Kareiva (The Nature Conservancy)

4:00 – 4:25 Response of the riverine ecosystem to altered sediment and wood supply downstream of Elwha Dams - George Pess, Michael McHenry (Lower Elwha S'Klallam Tribe), **Tim Beechie, and Peter Kiffney**

4:25 – 4:35 Closing Remarks – Phil Roni

Posters: (authors available)

Effect of channel slope and width on pool formation by wood, and implications for riparian management – Tim Beechie - (10:00 – 10:45)

Effects of shoreline armoring on summer spawning habitat of the surf smelt (*Hypomesus pretiosus*) – Casey Rice - (1:55 – 2:20)

From sediment bioassay to fish biomarker? Connecting the dots using simple trophic relationships – Casey Rice, Mark Myers (Ecotoxicology Program, NWFSC), Maryjean Willis (Ecotoxicology Program, NWFSC), Barb French (Environmental Technology and Assessment Program, NWFSC), and Ed Casillas (Fish Ecology, NWFSC) - (1:55 – 2:20)

Holocene and recent geomorphic processes, land use and salmonid habitat in two north Puget Sound river basins – Tim Beechie, Brian Collins (University of Washington), and George Pess - (10:00 – 10:45)

Impacts of riparian Red Alder on the nutrient dynamics and aquatic communities of headwater streams – Carol Volk (University of Washington), Peter Kiffney, Robert Edmonds (University of Washington), and Cathy Eberhart (University of Washington) - (1:30 – 2:00)

Predicting the expansion of smooth cordgrass, *Spartina alterniflora* (Loisel), in Willapa Bay, Washington, using spatial analysis, matrix models, and Geographic Information Systems (GIS) – Blake E. Feist and Charles A. Simenstad (Wetland Ecosystem Team, School of Aquatic and Fishery Sciences, University of Washington) - (2:30 – 3:00)

Restoration of off-channel habitats for Pacific salmon – Patsy Garcia, Sarah Morley, Todd Bennett, and Phil Roni - (2:30 – 3:00)

Stable isotope ratio analysis: A tool for evaluating nutrient status of anadromous fish producing streams – Bill Reichert and Watershed Program - (2:30 - 3:00)

Toxic response and bioaccumulation in a deposit-feeding polychaete – relative life stage and endpoint sensitivity, and the potential for trophic transfer – Casey Rice, Gina Ylitalo (Environmental Technology and Assessment Program, NWFSC), Barb French (Environmental Technology and Assessment Program, NWFSC), and Ed Casillas (Fish Ecology, NWFSC) - (1:55 – 2:20)